

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Product Specification

Product Name:

L-Alanine - from non-animal source, meets EP, USP testing specifications, suitable for cell culture, 98.5-101.0%

Product Number:

A7469

CAS Number:

56-41-7

MDL:

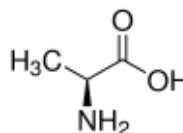
MFCD00064410

Formula:

C₃H₇NO₂

Formula Weight:

89.09 g/mol



| TEST | Specification |
|----------------------------------------|-----------------------|
| Appearance (Color) | White |
| Appearance (Form) | Crystalline Powder |
| Solubility (Color) | Colorless |
| Solubility (Turbidity) | Clear |
| 1.0 g to 10 ml, H ₂ O | |
| Origin | Conforms |
| Must Be Non-Animal Source | |
| Specific Rotation | 14.3 - 15.2 ° |
| C = 10 in 6 M HCl at 20 Deg C, per EP | |
| Chloride Content | < = 0.020% |
| Ammonium | ≤ 0.02 % |
| Sulfate | < = 0.020% |
| Iron (Fe) | < = 10 ppm |
| Arsenic (As) | < = 1 ppm |
| Loss on Drying | ≤ 0.20 % |
| Residue on ignition (Ash) | ≤ 0.10 % |
| Ninhydrin-Positive Substances | Conforms |
| pH | 5.7 - 6.7 |
| 5% in H ₂ O | |
| Assay (Dry Basis) | 98.5 - 101.0 % |
| Specific Rotation | 13.7 - 15.1 ° |
| C = 10 in 6 M HCl at 25 Deg C, per USP | |
| Residual Solvents | Meets Requirements |
| Identity by IR | Conforms to Structure |
| Endotoxin Assay | ≤ 1 EU/mg |

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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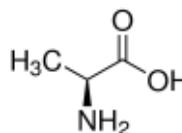
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Cell Culture Test

Pass

Note

Meets USP and EP testing specifications

Recommended Retest Period

4 years

Specification: PRD.4.ZQ5.1000007533

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